



# UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE  
United States Patent and Trademark Office  
Address: COMMISSIONER FOR PATENTS  
P.O. Box 1450  
Alexandria, Virginia 22313-1450  
www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/615,461	07/09/2003	Juha Ollila	089229.00149	7954
32294 7590 08/29/2008 SQUIRE, SANDERS & DEMPSEY L.L.P. 8000 TOWERS CRESCENT DRIVE 14TH FLOOR VIENNA, VA 22182-6212				
EXAMINER				
LIPMAN, JACOB				
ART UNIT		PAPER NUMBER		
2134				
MAIL DATE		DELIVERY MODE		
08/29/2008		PAPER		

**Please find below and/or attached an Office communication concerning this application or proceeding.**

The time period for reply, if any, is set in the attached communication.

### Office Action Summary

**Application No.**

10/615,461

**Applicant(s)**

OLLILA, JUHA

**Examiner**

JACOB LIPMAN

**Art Unit**

2134

**Period for Reply** -- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

**Status**

- 1) ☒ Responsive to communication(s) filed on 23 June 2008.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

**Disposition of Claims**

- 4) ☒ Claim(s) 1, 4-14, and 17-31 is/are pending in the application.
- 4a) Of the above claim(s) 12, 13 and 25-27 is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 1, 4-11, 14, 17-24 and 28-31 is/are rejected.
- 7) ☐ Claim(s) \_\_\_\_\_ is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

**Application Papers**

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on \_\_\_\_\_ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

**Priority under 35 U.S.C. § 119**

- 12) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☒ All b) ☐ Some \* c) ☐ None of:
1. ☒ Certified copies of the priority documents have been received.
  2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
  3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

**Attachment(s)**

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☐ Information Disclosure Statement(s) (PTO/SB/888)  
Paper No(s)/Mail Date \_\_\_\_\_
- 4) ☐ Interview Summary (PTO-413)  
Paper No(s)/Mail Date \_\_\_\_\_
- 5) ☐ Notice of Informal Patent Application
- 6) ☐ Other: \_\_\_\_\_

**DETAILED ACTION**

***Claim Rejections - 35 USC § 112***

1. The following is a quotation of the first paragraph of 35 U.S.C. 112:

The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.

2. Claims 1, 4-11, 14, 17-24, and 28-31 are rejected under 35 U.S.C. 112, first paragraph, as failing to comply with the enablement requirement. The claim(s) contains subject matter which was not described in the specification in such a way as to enable one skilled in the art to which it pertains, or with which it is most nearly connected, to make and/or use the invention. The specification does not teach how a computer can generate a truly random number.

***Claim Rejections - 35 USC § 103***

3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

4. Claims 1, 4-11, 14, 17-24, and 28-31, as best understood, are rejected under 35 U.S.C. 102(a) as being anticipated by XP-002286828, hereto referred to as XP, in view of Lamla et al., USPN 5,850,524.

With regard to claims 1, 14, and 28-31, XP discloses a method for generating a subscriber identifier (page 452), including the steps of generating an identifier base string based on encrypting a subscriber identifying value (page 452 step 5) generating

an integrity check value based on the identifier base string (page 452 step 6) and generating a subscriber identifier (page 452 step 7) based on a concatenation of the identifier base string and an integrity check value (page 452 step 6), generating the identifier base string includes the steps of binary coding of the subscriber identifying value (page 452 step 1) concatenating a random number (page 452 step 2), and performing an encryption algorithm on the concatenated binary coded subscriber identifying value and the random number (page 452 step 5), for generating the identifier base string. XP discloses using a timestamp to prevent replay attacks, and while a timestamp may read on a random number, Lamla discloses that adding a random number would make a replay attack impossible (column 4 lines 7-9). It would have been obvious for one of ordinary skill in the art to add the random number of Lamla for the stated motivation of making a replay impossible.

With regard to claims 4, 8, 17 and 21, XP discloses encrypting the identifier with a passphrase (page 453), and the decryption function uses the same passphrase ("Now is the encryption time"). XP does not disclose how the decryption program knows which passphrase to use. The examiner takes official notice that it is well known in the art to Application/Control Number: 10/615,461 Page 5 Art Unit: 2134 include a key identifier with encrypted data. It would have been obvious for one of ordinary skill in the art to include this key identifier with the encrypted data of XP for the motivation of allowing use of multiple keys, thus increasing security.

With regard to claims 5 and 18, XP discloses appending an identifier type (time stamp).

With regard to claims 6 and 19, XP discloses providing a length for the identifier (page 452 step 4).

With regard to claims 7, 9, 10, 20, 22, and 23, XP discloses using a keyed (digest\_key) hash for the integrity check (page 453).

With regard to claims 11 and 24, XP discloses the method of claim 1, as outlined above, but does not mention using the method of strengthening hidden fields (page 451) to hide an IMSI. The examiner takes official notice that IMSI numbers are only used for internal network purposes. It would have been obvious for one of ordinary skill in the art to hide an IMSI using the method of XP for the stated motivation of XP, to prevent a user from understanding the information stored on his computer and to allow detection of unauthorized changes to the number.

### ***Response to Arguments***

1. Applicant's arguments filed 21 May 2008 have been fully considered but they are not persuasive.

With regard to applicant's argument that the username in XP is not a binary string, the examiner points out that computers store all data as binary strings.

### ***Conclusion***

2. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

3. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Jacob Lipman whose telephone number is 571-272-3837. The examiner can normally be reached on M-Fr.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Kambiz Zand can be reached on 571-272-3811. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Jacob Lipman/  
Primary Examiner, Art Unit 2134